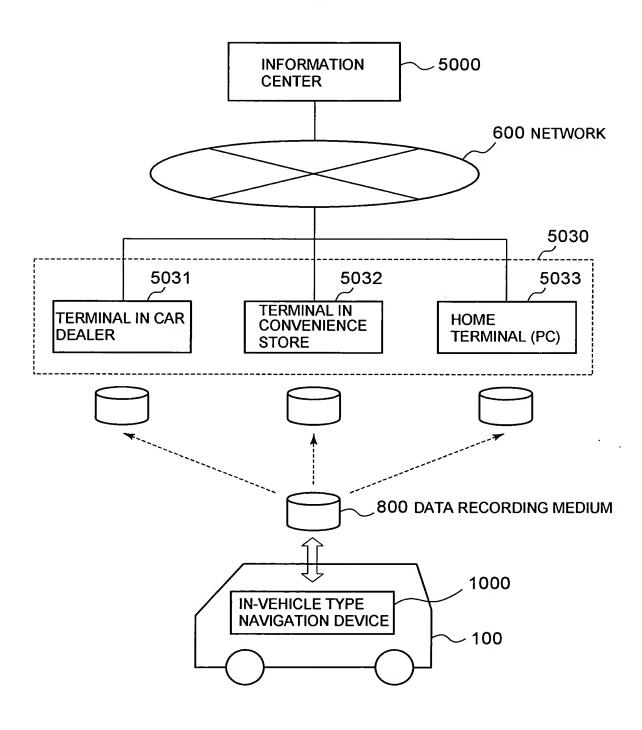
FIG. 1



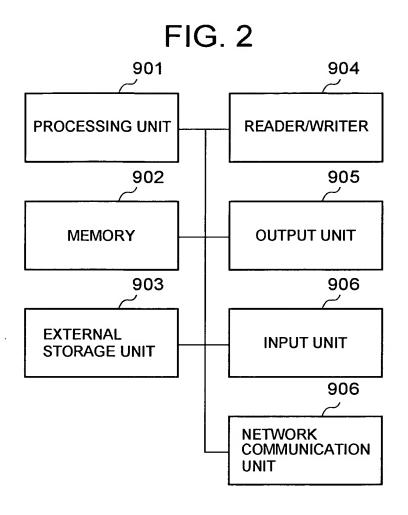


FIG. 3

STORED INFORMATION IN INFORMATION CENTER

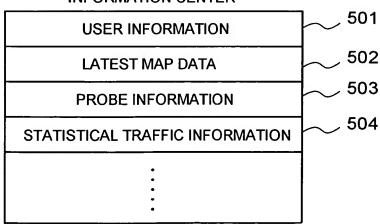
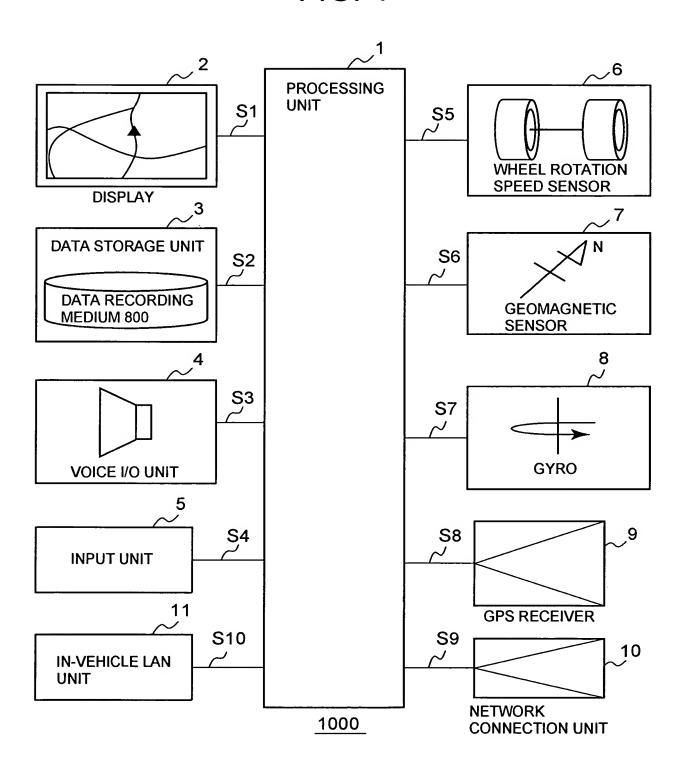


FIG. 4



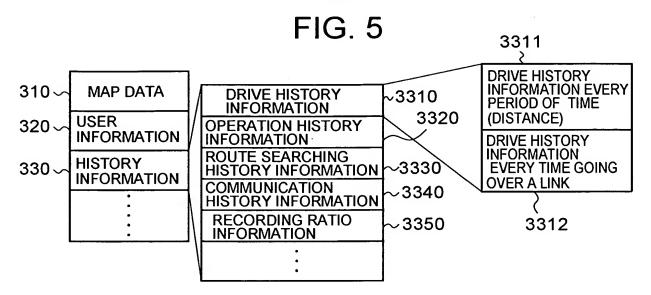


FIG. 6

DRIVE HISTORY INFORMATION EVERY PREDETERMINED PERIOD OF TIME (EVERY PREDETERMINED DISTANCE)

33111	33112 ~	33113 ~	33114
MEASURED DATE AND TIME	POSITION	LINK ID	VEHICLE INFORMATION
***	***	***	***
***	***	***	***
•	•	•	

FIG. 7

DF	RIVE HISTORY IN	NFORMATION E	VERY TIME GO	ING OVER A LINK
	33121	33124	33122	33123
	~	_~	~	~
	LINK ENTERING DATE AND TIME	LINK TRAVEL TIME	LINK ID	VEHICLE INFORMATION
	***	***	***	***
	***	***	***	***
	•	•	•	
	:	•	:	
	:	:		

FIG. 8

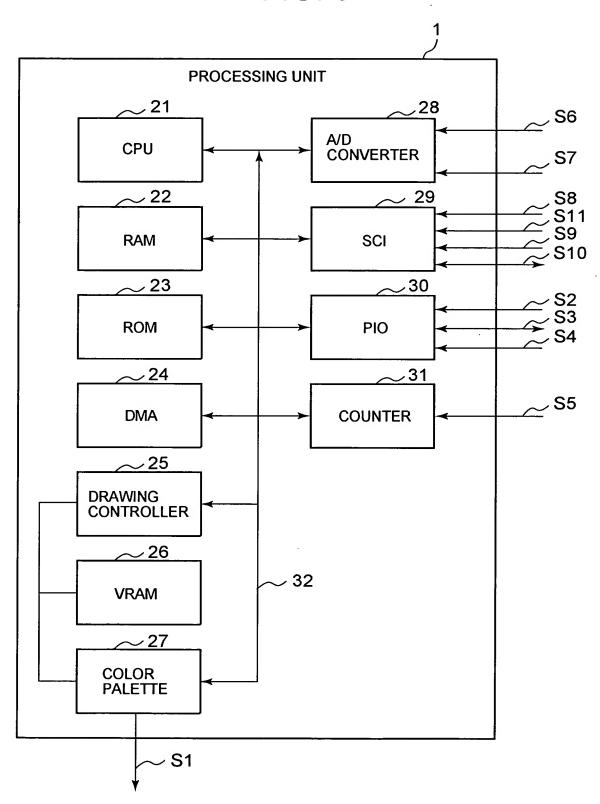


FIG. 9

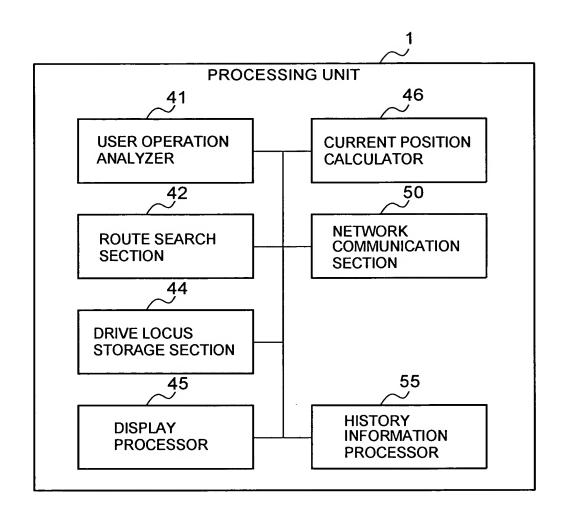


FIG. 10

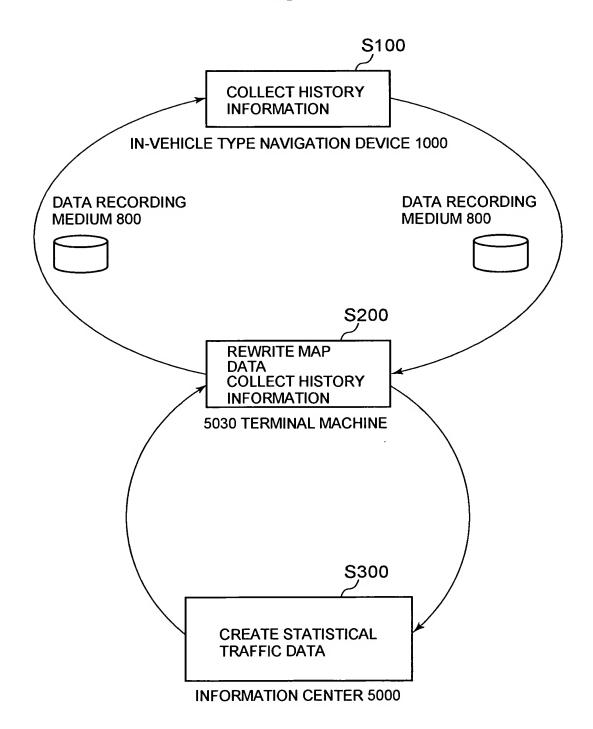
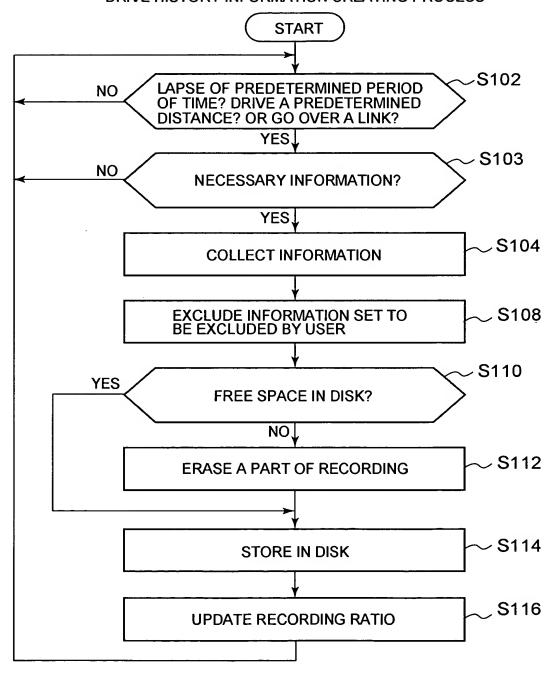


FIG. 11

201 SETTING SCREEN AS TO RECORDING HISTORY **INFORMATION RECORD HISTORY INFORMATION?** 211 RECORDING OF HISTORY YES INFORMATION WILL REDUCE CHARGE FOR UPDATING MAP DATA. NO YES 220 **DETAILED SETTING SCREEN** REMOVE A CHECK FROM THE INFORMATION NOT TO BE RECORDED 221 ☑ DRIVE DATE AND TIME M LINK TRAVEL TIME 222 \ ☑ PARKING BRAKE ON/OFF **™** BLINKER ON/OFF **™** WIPER ON/OFF ☐ ROUTE SEARCH HISTORY **☑** COMMUNICATION HISTORY

FIG. 12

DRIVE HISTORY INFORMATION CREATING PROCESS



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FIG. 13

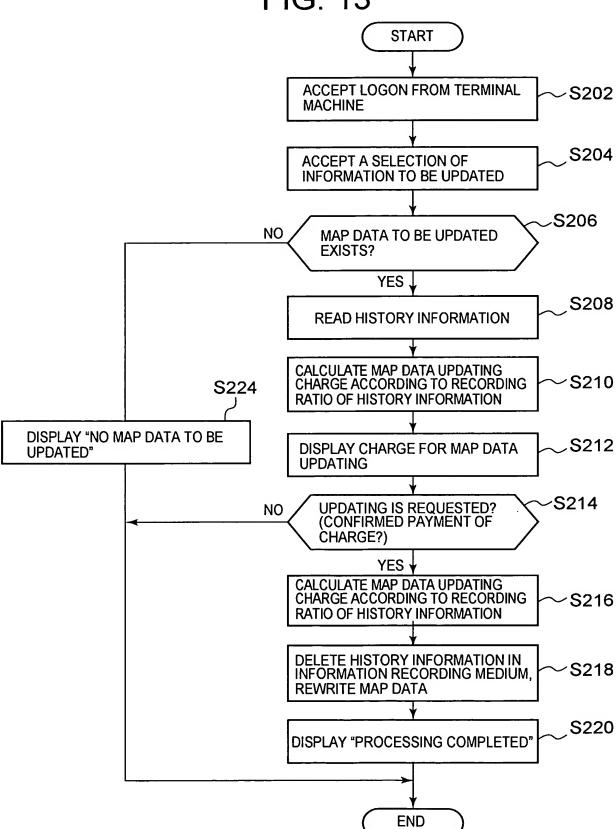


FIG. 14

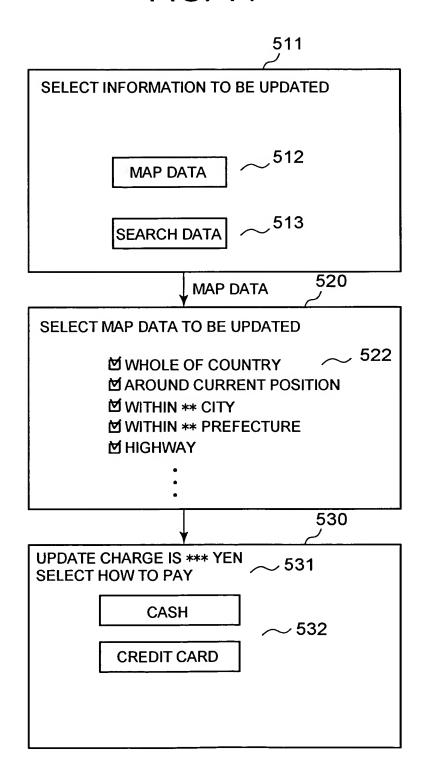


FIG. 15

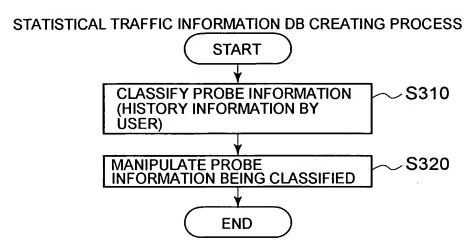


FIG. 16

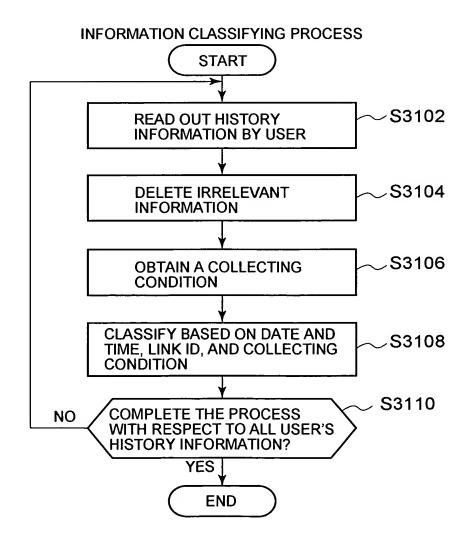


FIG. 17

INFORMATION MANIPULATING PROCESS

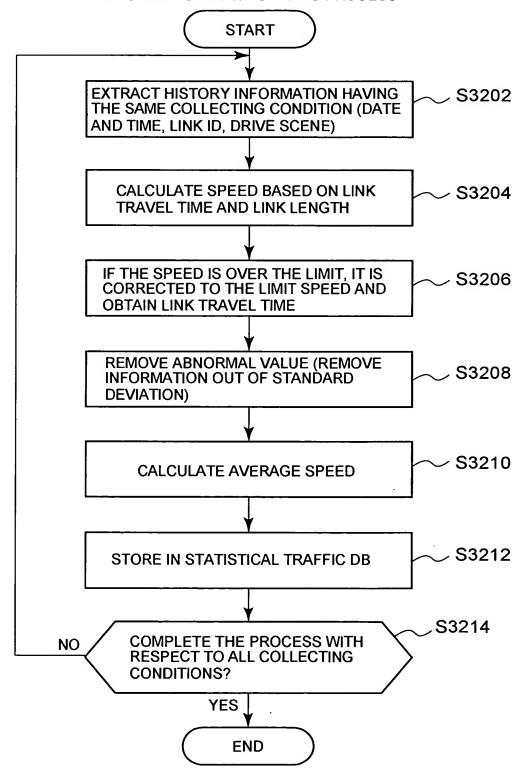


FIG. 18 **- 5000 INFORMATION CENTER** LATEST MAP **HISTORY** DATA **INFORMATION** 5030 **TERMINAL MACHINE** UPLOAD **HISTORY INFORMATION** 800 MAP DATA HISTORY DATA **INFORMATION** RECORDING **MEDIUM** 1000 IN-VEHICLE TYPE NAVIGATION DEVICE

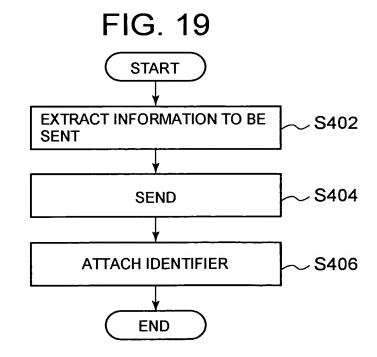


FIG. 20

LUOTODY	111505144	TION TO	DE 0511
HISTORY	INFORMA	CHON TO	RE SENT

33111a	33112a	33113a
MEASURED DATE AND TIME	POSITION	LINK ID
***	***	***
***	***	***
	:	:

FIG. 21

DRIVE HISTORY INFORMATION EVERY PREDETERMINED PERIOD OF TIME (PREDETERMINED DISTANCE)

33111	33112	33113	33114	33115
MEASURED DATE AND TIME	POSITION	LINK ID	VEHICLE INFORMATION	IDENTIFIER
***	***	***	***	ON
***	***	***	***	ON
:	:	:	:	:

2.

FIG. 22

